CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

213801Orig1s000

PRODUCT QUALITY REVIEW(S)





RECOMMENDATION

☐ Approval with Post-Marketing Commitment
☐ Complete Response

NDA 213801

MYRBETRIQ GRANULES (mirabegron for extended-release oral suspension)

Assessment #1

Drug Product Name	MYRBETRIQ Granules (mirabegron for extended-
	release oral suspension)
Dosage Form	For extended-release oral suspension
Strength	8 mg / mL after reconstitution
Route of Administration	Oral
Rx/OTC Dispensed	Rx
Applicant	Astellas Pharma Global Development, Inc.
US agent, if applicable	Not Applicable

Submission(s) Assessed	Document Date	Discipline(s) Affected
Original Submission (0001)	09/28/2020	All
Amendment (0004)	10/29/2020	Drug Substance, Drug Product
Amendment (0005)	10/30/2020	Biopharmaceutics
Amendment (0006)	11/06/2020	OPMA
Amendment (0007)	12/11/2020	Micro; Drug Product
Amendment (0009)	12/15/2020	Drug Product
Amendment (0014)	12/22/2020	Biopharmaceutics; Drug Product
Amendment (0021)	01/15/2021	Drug Product
Amendment (0024)	01/26/2021	OPMA; Drug Product
Amendment (0025)	02/05/2021	Drug Product
Amendment (0026)	02/09/2021	OPMA, Drug Product
Amendment (0028)	02/19/2021	OPMA; Drug Product
Amandment (0020)	30) 03/04/2021	OPMA, Drug Product,
Amendment (0030)		Biopharmaceutics
Amendment (0031)	03/04/2021	Drug Product
Amendment (0032)	03/05/2021	Drug Product
Amendment (0036)	03/17/2021	Drug Product
Amendment (0037)	03/19/2021	Drug Product
Amendment (0038)	03/23/2021	Drug Product

OPQ-XOPQ-TEM-0001v06

Page 1

Effective Date: February 1, 2019



QUALITY ASSESSMENT TEAM

QOYLLI I 7 TOOLOOMETTI TEYTII				
Discipline	Primary Assessment	Secondary Assessment		
Drug Substance	Sukhamaya (Sam) Bain	Donna Christner		
Drug Product	Mark Seggel	Wendy Wilson-Lee		
Manufacturing Process	Yong Wu	Yubing Tang		
Facilities	Yong Wu	Yubing Tang		
Microbiology	Jason God	Julie Nemecek		
Biopharmaceutics	Assadollah Noory	Vidula Kolhatkar		
Regulatory Business Process Manager	Marquita Burnett			
Application Technical Lead	Hong Cai			
Laboratory (OTR)	-	-		
Environmental	Mark Seggel	Wendy Wilson-Lee		
Labeling	Mark Seggel	Wendy Wilson-Lee		





EXECUTIVE SUMMARY

I. RECOMMENDATIONS AND CONCLUSION ON APPROVABILITY

Astellas Pharmaceuticals' 505(b)(2) New Drug Application 213801, for MYRBETRIQ Granules (mirabegron for extended-release oral suspension), 8 mg/mL of mirabegron after reconstitution, is recommended for APPROVAL from the OPQ perspective.

Sufficient chemistry, manufacturing and controls information and supporting data have been provided in accordance with 21 CFR 314.50 to ensure the identity, strength, quality, purity, and bioavailability of the drug product.

The prescribing information (PI) and patient package insert (PPI) as submitted on March 23, 2021 (0038) and the labels as submitted on March 17, 2021 (0036) and March 19, 2021 (0037) are accurate, complete and comply with the requirements under 21 CFR 201.

All drug substance and product-related manufacturing, packaging and testing facilities have acceptable drug CGMP status. An overall manufacturing inspection recommendation of APPROVE was issued on March 17, 2021. The recommendation remains current as of this review.

The claimed categorical exclusion from the environmental assessment requirements under 21 CFR Part 25.31(b) is acceptable.

II. SUMMARY OF QUALITY ASSESSMENTS

A. Product Overview

The proposed drug product Myrbetriq Granules (mirabegron for extended-release oral suspension) is a new formulation of mirabegron developed for the treatment of neurogenic detrusor overactivity (NDO) for the pediatric patients aged 3 years and older. The active ingredient mirabegron is a beta-3 adrenergic agonists and approved in the US under Myrbetriq (mirabegron extended-release tablets), 25 mg and 50 mg, in June 28, 2012 (NDA 202611) for the adult patients and for the treatment of overactive bladder (OAB) with symptoms of urge urinary incontinence, urgency and urinary frequency. Myrbetriq and Myrbetriq Granules are not substitutable on a milligram-per-milligram basis.

MYRBETRIQ Granules is supplied as granules in multi-dose bottles that are packaged in the aluminum pouches with desiccant. Each bottle is filled with approximately 8.3 g of yellowish white granules, which contain 830 mg of mirabegron. After reconstitution with 100 mL water, Myrbetriq Granules is pale brownish yellow to yellow oral suspension with 8 mg/mL of mirabegron. The oral suspension can facilitate the recommended

OPQ-XOPQ-TEM-0001v06

Page 3



Effective Date: February 1, 2019

dosage which is determined based on patient weight. The liquid formulation will provide an alternative to the tablets for pediatric patients who have difficulties swallowing the tablets.

This is considered crucial for the pediatric patients. Myrbetriq Granules has an extended-release profile. This is the result of its formulation (b) (4)

The preparation of the suspension will be performed by pharmacists at the time of dispensing to the patients. The pharmacist should also provide an appropriate oral dosing device to the patient. The instructions for reconstitution of Myrbetriq Granules by the pharmacist and the instructions for patient use are driven by the physico-chemical properties of the drug product. From the CMC perspective, the instructions for pharmacists and patients in the Prescribing Information (PI) and Patient Package Insert (PPI) are adequate to ensure the quality of the delivered doses.

The manufacturing, primary packaging and release testing of MYRBETRIQ Granules will be conducted at Astellas Pharm Tech Co., Ltd. Located at Yaizu-shi, Japan. The final packaging, labeling and release testing will be conducted at Astellas Pharma Europe B. V., Meppel, The Netherlands.

The expiration dating period is 24 months when MYRBETRIQ Granules is stored at 20°C to 25°C (68°F to 77°F) with excursions permitted from 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. The maximum patient use period is 28 days after reconstitution with water when stored at 20°C to 25°C.

Proposed Indication(s)	for the treatment of neurogenic detrusor overactivity
including Intended	(NDO) in pediatric patients aged 3 years and older.
Patient Population	
Duration of Treatment	As needed
Maximum Daily Dose	80 mg (10 mL)
Alternative Methods of	Not Applicable
Administration	



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

