## **BIOCHEMISTRY** AND **MOLECULAR BIOLOGY** REVISED EDITION

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tor.

- **L** symbol for 1 iodine. 2 an iodo group in an organic compound. 3 a residue of the  $\alpha$ -amino acid L-isoleucine (alternative to Ile). 4 a residue of the ribonucleoside inosine (alternative to Ino).
- I symbol for 1 electric current (preferred alternative to i). 2 intensity; the subscripts e (for energetic), p (for photon), or v (for visible) may be added to distinguish between radiant intensity, photon intensity, and luminous intensity, respectively. 3 ionic strength; the subscripts c or m may be added to indicate whether it is expressed based on concentration or molality respectively. 4 the inductive effect of a particular chemical group in an organic compound.

iA symbol for N6-(2-isopentenyl)adenosine, a hypermodified base.

IAA abbr. for indole-3-acetic acid or indoleacetate.

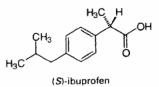
IAN abbr. for indoleacetonitrile.

IAP abbr. for islet-activating protein; see pertussis toxin.

- **iatrogenic** describing a condition or disease induced unintentionally by a physician through his or her diagnosis, manner, or therapy. —**iatrogenicity** n.
- **I-band** *abbr. for* isotropic band. The I-bands of striated muscle contain the **thin filaments** and correspond to the light bands. The name derives from the fact that they are isotropic in polarized light. See also **sarcomere**.

IBMX abbr. for isobutylmethylxanthine.

**ibuprofen** 2-(4-isobutylphenyl)propionic acid; a nonsteroidal anti-inflammatory agent of the substituted propionic acid type; others of this type are flurbiprofen, **ketoprofen**, and naproxen. They inhibit the cyclooxygenase activity of **prostaglandin-endoperoxide synthase**, reversibly over short time intervals, followed by time-dependent irreversible inactivation, due probably to conformational rather than covalent changes. The racemic mixture is present in many over-the-counter drugs, but the (S)-enantiomer is the active form. *Proprietary names include*: Advil; Brufen; Motrin.



ic or i.c. abbr. for intracutaneous or intracutaneously. IC abbr. for internal conversion.

- **IC**<sub>50</sub> I the median inhibitory concentration (in mol L<sup>-1</sup>) of an antagonist, i.e. the concentration that reduces a specified response to 50% of its former value; *compare* EC<sub>50</sub>. 2 the median inhibitory concentration (in mol L<sup>-1</sup>) of an agent (agonist or antagonist), i.e. the concentration that causes a 50% reduction in the specific binding of a radioligand.
- ICAM abbr. for intercellular adhesion molecule: any of several type I membrane glycoproteins of the immunoglobulin superfamily. They act as ligands for leukocyte adhesion to target cells, in conjunction with **LFA-1**; in fact LFA-1-ICAM links mediate adhesion between many cell types. There are three subclasses. **ICAM-1** (or CD54), of molecular mass 90-115

55-65 kDa, are constitutively expressed on chootieth some lymphocytes, monocytes, and dendritic cells. I (human): database code ICA2\_HUMAN, 275 amin (30.62 kDa). ICAM-3 (or CD50), of molecular mass kDa, are constitutively expressed on monocytes, granu and lymphocytes; upon physiological stimulation they rapidly and transiently phosphorylated on serine resid ample (human): database code ICA3\_HUMAN, 54' acids (59.32 kDa).

- **ICD** (in clinical chemistry) abbr. for isocitrate dehydr (EC 1,1,1,41).
- ice the solid form of water that can exist at temperature the triple point of water (273.16 K at 101 325 Pa).
- iceberg a metaphor used to describe an interpretatio anomalous entropies of solution of noble gases and ot polar substances in water, suggesting that water tends t ize itself into quasi-solid supramolecular structures ar molecules of such substances. In the case of alkyl com this tendency increases markedly with the length of t chain.
- **ICE-like protease** any of a family of endopeptida structurally resemble **interleukin-1β convertase** (ICE). involved in **apoptosis**, being implicated in the proteol causes cell death.
- **I cell 1** or CCK cell any of a group of cells, widely di in the duodenal and jejunal mucosa, that produce cl kinin. So named because their histological features a mediate between those of S cells and L cells. 2 a inclusion cell. See also I-cell disease.
- I-cell disease or inclusion-cell disease or mucolipido autosomal recessive disease in which most of the lyso the connective tissue (fibroblasts) contain large incl glycoaminoglycans and glycolipids as a result of the of several lysosomal hydrolases. These enzymes, w synthesized in the endoplasmic reticulum, are secreted extracellular medium rather than being directed to somes. This is due to the absence of a mannose 6-p marker on the carbohydrate moieties of these hydro cause of a deficiency in an enzyme required for mann phorylation. The failure of the phosphorylation i Golgi network means that the enzymes are not segre the mannose 6-phosphate receptors into the appropriate vesicles in the trans Golgi network. The patients ha normally high level of lysosomal enzymes in their body fluids. A milder form of I-cell disease is Hurl dystrophy (Hurler syndrome).
- ice point the temperature at which ice melts. It is tal temperature (273.15 K) at which ice and water are i rium at standard pressure (101 325 Pa). It was used a ence temperature on the Celsius scale, but the kelvin instead on the temperature at the **triple point** of water (: ICF abbr. for intracellular fluid.

ichthyotocin an alternative name for isotocin.

**icosa**+ or (before a vowel) **icos**+ comb. form recomm denoting twenty or twenty times. Also (formerly) **eicos**+. (Note: the eicos(a)+ variant is still always us  $C_{20}$  fatty acids and skeletally related compounds eicosanoids.)

icosadeltahedron (pl. icosadeltahedra) any solid ge

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