Ketorolac (tromethamine salt)

Item No. 70690

CAS Registry No.: 74103-07-4

Formal Name: (±)-5-benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylic acid, tris(hydroxymethyl) aminomethane salt

Synonym: Toradol

MF: C15H12NO3 • C4H12NO3

FW: 376.4

Purity: ≥99%

Stability: ≥2 years at room temperature

Supplied as: A crystalline solid

UV/Vis.: λmax: 243, 317 nm

Laboratory Procedures

For long term storage, we suggest that Ketorolac (tromethamine salt) be stored as supplied at room temperature. It should be stable for at least two years.

Ketorolac (tromethamine salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the Ketorolac (tromethamine salt) in an organic solvent purged with an inert gas. Ketorolac (tromethamine salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of Ketorolac (tromethamine salt) in these solvents is approximately 7 mg/ml in ethanol and approximately 50 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of Ketorolac (tromethamine salt) can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of Ketorolac (tromethamine salt) in PBS (pH 7.2) is ≥ 25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Ketorolac is a non-selective COX inhibitor. The IC50 values for human recombinant COX-1 and -2 are 31.5 μM and 60.5 μM, respectively.1

Reference


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**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**MATERIAL SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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