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**Product Data Sheet**

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Product Name: Rimeporide hydrochloride (EMD-87580 hydrochloride)

Cat. No.: GC31449

**Chemical Properties**

Cas. No. 187870-95-7

SMILES O=C(NC(N)=N)C1=CC(S(=O)(C)=O)=C(S(=O)(C)=O)C=C1C.ClFormula  $C_{11}H_{16}ClN_3O_5S_2$  M.Wt 369.84

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Rimeporide hydrochloride (EMD-87580 hydrochloride) is a potent and selective inhibitor of the Na<sup>+</sup>/H<sup>+</sup> exchanger (NHE-1).

Blocking NHE-1 activity has been shown to decrease intracellular Na<sup>+</sup> and Ca<sup>2+</sup> overload and pH and Rimeporide (EMD-87580) represents a new therapeutic option for Duchenne muscular dystrophy (DMD). Rimeporide (EMD-87580) is expected to act as a muscle-sparing agent and its mode of action means that it is mutation independent[1].

[1]. F. Porte-Thomé, et al. Development of Rimeporide, a sodium-hydrogen exchanger (NHE-1) inhibitor, for patients with Duchenne muscular dystrophy. *Neuromuscular Disorders*. October 2015 Oct 25:259-260.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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