
Product Data Sheet

Product Name: PHP51 sodium salt

Cat. No.: GC50568

Chemical Properties

Cas. No.

SMILES O=S(C1=CC=C(C=C1)N/N=C2C(N(C3=CC=CC=C3)N=C\2C4=CC=C([N+](O-)=O)C=C4)=O)(O[Na])=O

Formula C₂₁H₁₄N₅O₆SNa

M.Wt

487.42

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

Shp2 (PTPN11) inhibitor (IC₅₀ = 2.1 μM). Inhibits hepatocyte growth factor-stimulated epithelial cell scattering and branching morphogenesis in vitro. Increases myelin basic protein (MBP) levels in zebrafish embryo spinal cord. Also ameliorates bleomycin-induced pulmonary and dermal fibrosis in vivo.

Hellmuth et al (2008) Specific inhibitors of the protein tyrosine phosphatase Shp2 identified by high-throughput docking. Proc.Natl.Acad.Sci.U.S.A 105 7275 PMID:18480264 | Ahrendsen et al (2018) The protein tyrosine phosphatase Shp2 regulates oligodendrocyte differentiation and early myelination and contributes to timely remyelination. J.Neurosci. 38 787 PMID:29217681 | Zehender et al (2018) The tyrosine phosphatase SHP2 controls TGFβ-induced STAT3 signaling to regulate fibroblast activation and fibrosis. Nat.Commun. 9 3259 PMID:30108215

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
