

Product Data Sheet

Product Name: XRK3F2
Cat. No.: GC34330

Chemical Properties

Cas. No. 2375193-43-2

SMILES FC(C=C1)=CC=C1COC2=C(OCC3=CC=C(F)C=C3)C=C(CNCCO)C=C2.Cl

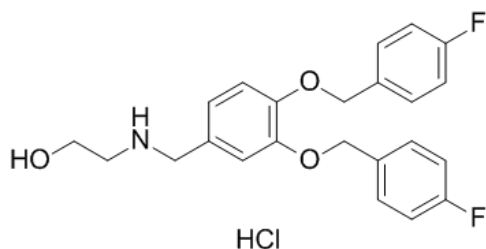
Formula $C_{23}H_{24}ClF_2NO_3$ M.Wt 435.89

Solubility DMSO : 150 mg/mL (344.12 mM); Water : 0.91 mg/mL (2.09 mM) 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

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

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XRK3F2 is an inhibitor of p62 (Sequestosome-1)-ZZ/ domain.

The presence of XRK3F2 during MM-preOB co-cultures prevents Runx2 suppression at both d0 and d4. Furthermore, XRK3F2 blocks MM-induced upregulation of Gfi1. XRK3F2 blocks the induction of Gfi1 mRNA in BMSC in both treatment conditions. In contrast, XRK3F2 prevents both MM1.S CM and TNF α plus IL7-mediated Runx2 suppression. Further, the pro-inflammatory and myeloma pro-survival factor IL6 mRNA is also reduced by XRK3F2 treatment. In addition, XRK3F2 also prevents TNF α -mediated upregulation of Gfi1 and rescues inhibition of Runx2 in MC4 preOB. XRK3F2 prevents MM-induced GFI1 occupancy at the Runx2-P1 promoter. XRK3F2 treatment significantly rescues the H3K9ac levels at Runx2 in MM patient hBMSC and XRK3F2 can rescue early steps in osteogenesis[1].

[1]. Adamik J, et al. XRK3F2 Inhibition of p62-ZZ Domain Signaling Rescues Myeloma-Induced GFI1-Driven Epigenetic Repression of the Runx2 Gene in Pre-osteoblasts to Overcome Differentiation Suppression. *Front Endocrinol (Lausanne)*. 2018 Jun 29;9:344.

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