

Product Data Sheet

Product Name: TCB-32 hydrochloride

Cat. No.: GC81329

Chemical Properties

Cas. No. 169764-95-8

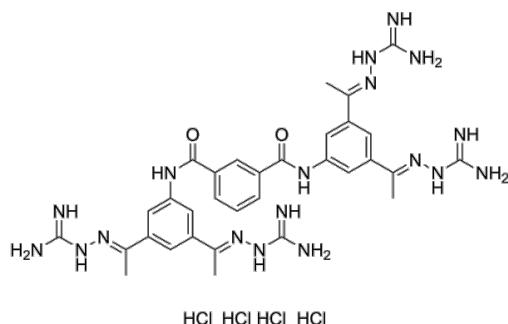
Formula $C_{32}H_{44}Cl_4N_{18}O_2$ M.Wt 854.62

Solubility DMSO: 100 mg/mL (117.01 mM; Need ultrasonic) Storage Store at 4°C, away from moisture and light

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

TCB-32 (Compound I-1) hydrochloride is a FGFR1 agonist with an EC₅₀ of 0.88 μM. TCB-32 hydrochloride significantly increases cell proliferation through activating FGFR1 signaling pathway as bFGF and its downstream ERK1/2 with excellent thermal stability. TCB-32 hydrochloride can replace bFGF in serum-free cell culture media. TCB-32 hydrochloride can be used for tissue repair and wound healing related diseases like psoriasis and eczema research [1] [2].

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

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References:

- [1]. FEOFANOV M, et al. Compounds for activation of fgfr1 signaling. WO2025045826A1. 2025-03-06.
- [2]. Feofanov M, et al. Discovery and optimization of a guanyldhydrazone-based small molecule to replace bFGF for cell culture applications. Biochem Biophys Rep. 2025 Jul 21;43:102167.

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