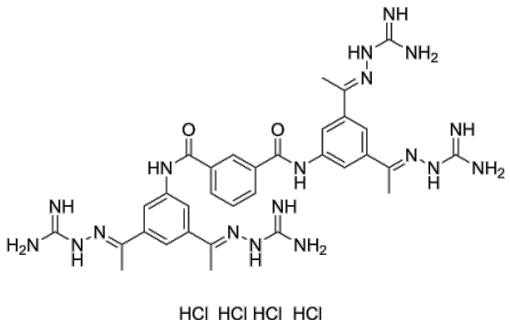
Product Data Sheet

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 EC 50 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 guanylhydrazone-based small molecule to replace bFGF for cell culture applications. Biochem Biophys Rep. 2025 Jul 21;43:102167.