

Product Data Sheet

Product Name: DTP3 TFA

Cat. No.: GC38202

Chemical Properties

Cas. No.

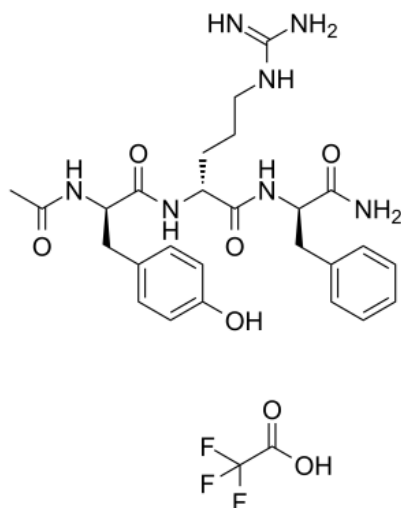
Formula $C_{28}H_{36}F_3N_7O_7$ M.Wt 639.62

Solubility Water: 100 mg/mL (156.34 mM); Storage -20°C, protect from light
DMSO: 50 mg/mL (78.17 mM)

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

DTP3 TFA is a potent and selective GADD45 β /MKK7 (growth arrest and DNA-damage-inducible β /mitogen-activated protein kinase kinase 7) inhibitor. DTP3 TFA targets an essential, cancer-selective cell-survival module downstream of the NF- κ B pathway[1].

DTP3 (10 μ M; 1-21 days) causes the potent and tumor-selective induction of JNK activation and apoptosis, as shown by the appearance of phosphorylated JNK, as early as 24 hours[2]. Western Blot Analysis[2] Cell Line: Multiple myeloma (MM) cell lines

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

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DTP3 TFA (s.c.; 14.5 mg/kg/day; 28 days) has shown a dramatic shrinkage of the tumors, and virtually eradicates established subcutaneous myeloma xenografts in mice[2]. DTP3 TFA (intravenous injection; 10 mg/kg/day) has t_{1/2} of 1.26 hours, CL of 27.13 ML/min/kg, and Vd of 2.80 L/kg[2]. Animal Model: 6 to 8-week old male NOD/SCID mice (NOD.CB17-Prkdcscid/lcrCrl; Charles River)[2]

[1]. Tornatore L, et al. Preclinical toxicology and safety pharmacology of the first-in-class GADD45 β /MKK7inhibitor and clinical candidate, DTP3. Toxicol Rep. 2019 Apr 19;6:369-379. [2]. Tornatore L, et al. Cancer-selective targeting of the NF- κ B survival pathway with GADD45 β /MKK7 inhibitors. Cancer Cell. 2014 Oct 13;26(4):495-508.

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