

Product Name: Trofinetide (acetate)
Cat. No.: GC90929

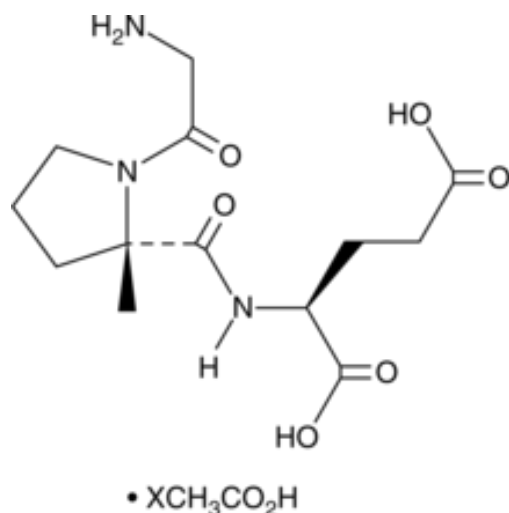
Cas. No.

Formula	C13H21N3O6 ? XC2H4O2	M.Wt	315.3
Solubility	DMF: 5 mg/ml,DMSO: 10 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 10 mg/ml	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.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Trofinetide is a derivative of the neuroprotective tripeptide Gly-Pro-Glu, an N-terminal sequence found in insulin-like growth factor-1 (IGF-1).¹ It decreases cell death induced by the protein phosphatase inhibitor okadaic acid in primary rat embryonic striatal neurons when used at a concentration of 10 nM. Trofinetide reduces brain expression of mRNA encoding IL-1 β , TNF- α , IL-6, and E-selectin in a rat model of neuroinflammation induced by a penetrating ballistic-like brain injury.² It reduces cortical and striatal infarct area in a rat model of brain injury induced by middle

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

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Product Data Sheet

cerebral artery occlusion (MCAO) when administered at doses of 30 and 60 mg/kg.¹ Trofinetide (100 mg/kg per day) reduces the number of dendritic spines and reverses deficits in social recognition and contextual fear conditioning, as well as decreases testicular weight gain, in an *fmr1*^{-/-} knockout mouse model of fragile X syndrome.³ Formulations containing trofinetide have been used in the treatment of Rett syndrome.

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