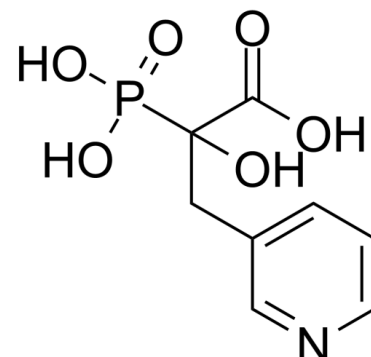


Data Sheet

Product Name:	NE 10790
Cat. No.:	CS-0006102
CAS No.:	152831-36-2
Molecular Formula:	C ₈ H ₁₀ NO ₆ P
Molecular Weight:	247.14
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : 5 mg/mL (20.23 mM; ultrasonic and adjust pH to 6 with NaOH)



BIOLOGICAL ACTIVITY:

NE 10790, a poor farnesyl pyrophosphate synthase inhibitor, is a phosphonocarboxylate analogue of the potent bisphosphonate risedronate and is a weak antiresorptive agent. IC₅₀ & Target: FPP synthase^[1]. **In Vitro:** NE 10790 inhibits incorporation of [¹⁴C]mevalonic acid into Rab6, but not into H-Ras or Rap1, proteins that are modified by FTase and GGTase I, respectively. NE 10790 reduces viability in J774 cells. NE 10790 prevents prenylation of 22-26-kDa proteins that are not modified by FTase or GGTase I^[1].

References:

[1]. Coxon FP, et al. Identification of a novel phosphonocarboxylate inhibitor of Rab geranylgeranyl transferase that specifically prevents Rab prenylation in osteoclasts and macrophages. J Biol Chem. 2001 Dec 21;276(51):48213-22.

CAIndexNames:

3-Pyridinepropanoic acid, α-hydroxy-α-phosphono-

SMILES:

OC(C(O)=O)(P(O)(O)=O)CC1=CC=CN=C1

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

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