

Fostamatinib disodium, Syk inhibitor

Catalog	Unit
TBI4144-5MG	5 mg
TBI4144-25MG	25 mg

Product Details

Formal Name: [6-[[5-Fluoro-2-(3,4,5-trimethoxyanilino)pyrimidin-4-yl]amino]-2,2-dimethyl-3-oxopyrido[3,2-b][1,4]oxazin-4-yl]methyl phosphate, disodium salt

Alternate Names: R788

Molecular Formula: C₂₃H₂₄FN₆O₉P·2Na

Formula Weight: 624.4

CAS Number: 1025687-58-4

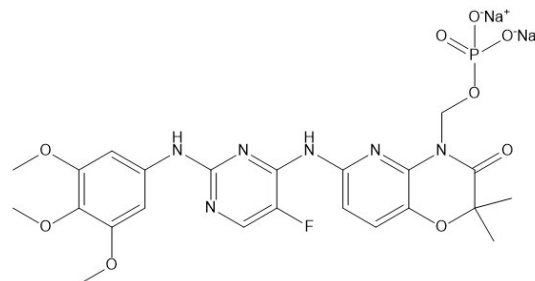
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (12 mg/ml with warming)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Syk inhibitor

Functions

Prodrug of the spleen tyrosine kinase inhibitor (Syk) R406 and is approved for the treatment of chronic immune thrombocytopenia. It has demonstrated significant reduction in inflammatory mediators such as TNF α , IL-1, IL-6, and IL-8 in arthritis models. Syk IC₅₀ = 41 nM. Also inhibits Flt3, Lyn, and Lck with similar potency in vitro but displays higher selectivity Syk in cellular assays. Significantly inhibits LPS-induced inflammatory response via blocking STAT1/3 signaling. Fostamatinib restored myeloid homeostasis in severe COVID-19. Displayed synergistic effects with anti-PDL1 therapy against neuroblastoma. Fostamatinib induces metabolic reprogramming of acute myeloid leukemia stem cells.

Application Procedures

First dissolved in Soluble in DMSO (12 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.