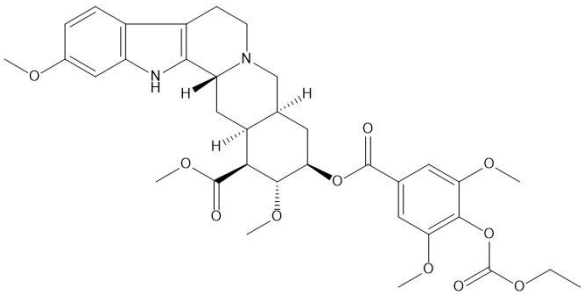
Tribioscience

Syrosingopine, MCT4 inhibitor

Catalog	Unit
TBI4688-5MG	5 mg
TBI4688-25MG	25 mg

Product Details

Formal Name: Methyl (1R,15S,17R,18R,19S,20S)-17-(4-ethoxycarbonyloxy-3,5-dimethoxybenzoyl)oxy-6,18-dimethoxy-1,3,11,12,14,15,16,17,18,19,20,21-dodecahydroyohimban-19-carboxylate
Molecular Formula: $C_{35}H_{42}N_2O_{11}$
Formula Weight: 666.7
CAS Number: 84-36-6
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to at least 25 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

MCT4 inhibitor

Functions

A reserpine derivative that is an inhibitor of monocarboxylate transporter 4 (IC_{50} MCT4 = 40 nM; IC_{50} MCT1 = 2.5 µM). It prevents lactate and H^+ efflux. Elicits synthetic lethality in cancer cells in combination with metformin *via* NAD+ depletion leading to glycolytic blockade and cell death. It displays anticancer activity in several cancer models including leukemia, breast, NSCLC, and glioblastoma. Syrosingopine was originally used to treat hypertension *via* its antinoradrenergic effects.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.