

## BAY K8644, L-type calcium channel activator

Catalog	Unit
TBI4518-5MG	5 mg
TBI4518-25MG	25 mg

### Product Details

**Formal Name:** (±)- Methyl 1,4-Dihydro-2,6-dimethyl-5-nitro-4-[2-(trifluoromethyl)phenyl]-3-pyridinecarboxylate

**Molecular Formula:** C<sub>16</sub>H<sub>15</sub>F<sub>3</sub>N<sub>2</sub>O<sub>4</sub>

**Formula Weight:** 356.30

**CAS Number:** 71145-03-4

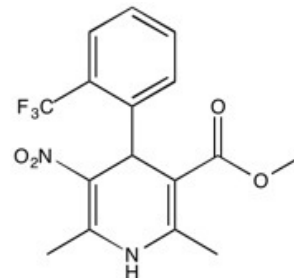
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

L-type calcium channel activator

### Functions

BAY K8644 is an ionotropic agent that activates L-type calcium channels by prolonging single-channel open time without affecting closed time. It acts as a vasoconstrictor, and in combination with histone methyltransferase inhibitor BIX-01294 (#MC-1335), induces reprogramming of mouse embryonic fibroblasts transduced with Oct4/Klf4.

### Application Procedures

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

**For research use only.**