K-252a

Protein kinase inhibitor

Alkaloid isolated from soil fungi. General, cell permeable protein kinase inhibitor. Acts by binding to the ATP binding domain of the kinase. Potent inhibitor of Ca^{2+}/calmodulin kinase II. Inhibits myosin light chain kinase, cAMP-dependent protein kinase (PKA), protein kinase C (PKC) (K_i=25nM), trk tyrosine kinase family members (gp140trk; IC_{50} =3nM) and cGMP-dependent protein kinase (PKG). Binds with high affinity to neuroblastoma membrane (2.7nM), promoting survival of primary neuronal cultures (75nM) and induction of neurite outgrowth in SH-SY5Y neuroblastoma cells along with phosphorylation of pp125 focal adhesion protein tyrosine kinase. Induces apoptosis.

Citations: 30 View Online »

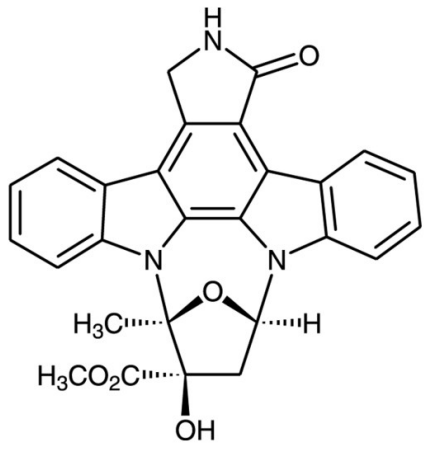
Ordering Information

Order Online »

BML-EI152-1000	1mg
BML-EI152-0100	100µg

Manuals, SDS & CofA

View Online »


H
N
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H3C
H
H3CO2C
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Lyophilized solid.
CAS	99533-80-9
Couple Target	CaM kinase, MLCK, PKA, PKC, PKG, Trk
Couple Type	Inhibitor
Formula	$C_{27}H_{21}N_3O_5$
MW	467.5
Purity	≥98% (HPLC)
RTECS	NZ0550000
Solubility	Soluble in DMSO (1mg/ml) or dimethyl formamide (1mg/ml).

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