**PRODUCT DATA SHEET**

**BML-EI152**

**K-252a**

Protein kinase inhibitor

![Image of K-252a molecule]

**Product Number/Size**

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

Replaces Prod. #: **ALX-380-027**

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 Ca²⁺/calmodulin kinase II. Inhibits myosin light chain kinase, cAMP-dependent protein kinase (PKA), protein kinase C (PKC) (Kₐ=25nM), trk tyrosine kinase family members (gp140trk; Iₐₕ=3nM) and cGMP-dependent protein kinase (PKG). Birds with high affinity to neuroblasta 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.

**Product Specifications**

- **FORMULA:** C₇₂H₁₁₂N₉O₅
- **MW:** 467.5
- **PURITY:** ≥98%
- **APPEARANCE:** Lyophilized solid.
- **CAS:** 97161-97-2
- **RTECS:** NZ0550000
- **SOLUBILITY:** Soluble in DMSO (1mg/ml) or dimethyl formamide (1mg/ml).
- **LONG TERM STORAGE:** -20°C
- **USE/STABILITY:** 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.

**Product Literature References**

K252a is a selective inhibitor of the tyrosine protein kinase activity of the trk family of oncopenes and neurotransphin receptors P. Tapley, et al. Oncogene 7 371 (1992)
pp42/44MAP kinase is a component of the neurogenic pathway utilized by nerve growth factor in PC12 cells E.D. Lloyd & M.W. Wooten J. Neurochem. 59 1099 (1992)
K252a is a potent and selective inhibitor of phosphorylase kinase L.H. Elliott, et al. BBRC 171 148 (1990)

Background/Technical Information
Please click here for the comprehensive product datasheet.

Revised 24-Feb-12