

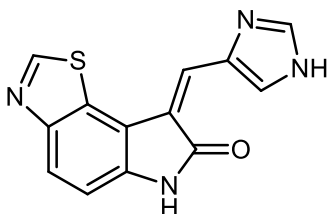
Catalog # 10-1329

C16

CAS# 608512-97-6

6,8-Dihydro-8-(1H-imidazol-5-ylmethylene)-7H-pyrrolo[2,3-g]benzothiazol-7-one

Lot # X104868



C16 Inhibits RNA-dependent protein kinase (PKR, $IC_{50} = 210$ nM).¹ Inhibits ER stress-induced neuronal damage.² C16 is able to prevent β -amyloid peptide-induced inflammation.³ Cell permeable and brain penetrant.

- 1) Jammi *et al.* (2003), *Small molecule inhibitors of the RNA-dependent protein kinase*; *Biochem.Biophys.Res. Commun.*, **308** 50
- 2) Shimazawa *et al.* (2007), *Involvement of double-stranded RNA-dependent protein kinase in ER stress-induced retinal neuron damage*; *Ophthalmol.Vis.Sci.*, **48** 3729
- 3) Couturier *et al.* (2011), *Prevention of the β -amyloid peptide-induced inflammatory process by inhibition of double-stranded RNA-dependent protein kinase in primary murine mixed co-cultures*; *J.Neuroinflammation* **8** 72

PHYSICAL DATA

Molecular Weight:	268.30
Molecular Formula:	C ₁₃ H ₈ N ₄ OS
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml with warming)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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