

**DATA SHEET**

**Product Name:** C16

**Catalog #:** N-3030

**Alt:** CAS# 608512-97-6; 6,8-Dihydro-8-(1H-imidazol-5-ylmethylene)-7H-pyrrolo[2,3-g]benzothiazol-7-one

**Source:** Synthetic

**Molecular Mass:** 268.3 C<sub>13</sub>H<sub>8</sub>N<sub>4</sub>O<sub>5</sub>

**Analysis:** 98% (TLC); NMR (Conforms)

**Supplied As:** Orange powder

**Resuspension:** May be dissolved in DMSO (15 mg/ml, warm)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month.

**Description:** Inhibits RNA-dependent protein kinase (PKR, IC<sub>50</sub> = 210 nM)<sup>1</sup>. Inhibits ER stress-induced neuronal damage<sup>2</sup>. Reduces brain PKR activation in vivo<sup>3</sup>. Prevents apoptosis and IL-1 $\beta$  production in an acute excitotoxic and neuroinflammatory rat model<sup>4</sup>. Prevents  $\beta$ -amyloid peptide-induced inflammation in primary murine mixed cocultures<sup>5</sup>. Cell permeable.

**References:**

1. Jammi, N.V., et al., (2003) Biochem. Biophys. Res. Commun., 308 : 50
2. Shimazawa, M., et al., (2006) Neurosci. Lett., 409 : 192
3. Ingrand, S., et al., (2007) FEBS Lett., 581 : 4473
4. Tronel, C., et al., (2014) Neurochem. Int., 64 : 73
5. Couturier, J., et al., (2011) J. Neuroinflammation, 8 : 72

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