

**CHOP Activator, Cpd12 - Calbiochem A cell-permeable, potent, and selective inducer of CHOP (AC<sub>50</sub> = 800 nM). Does not affect XBP activity (AC<sub>50</sub> > 80 µM).**

Art. ID SAF-5336410001

Unit EA

Description

A cell-permeable sulfonamidebenzamide derivative that acts as a potent and selective inducer of C/EBP-homologous protein (CHOP, AC<sub>50</sub> = 800 nM) without affecting XBP (AC<sub>50</sub> > 80 µM). Displays a balanced profile in terms of its lipophilic profile (cLogP = 2.7), selectivity, and activation of CHO-CHOP luciferase reporter system. Exhibits high selectivity against a panel of 67 GPCR, nuclear receptors, transporters, and ion channels. Has significantly reduced activity towards dopamine receptor at high concentrations (68% at 10 µM). upregulates the expression of UPR target genes. Displays anti-proliferation properties in wild-type mouse embryonic fibroblasts (EC<sub>50</sub> = 4.8 µM), but does not affect CHOP knock out cells even at high concentrations (EC<sub>50</sub> > 20 µM). Inhibits the proliferation of several cancer cell lines at low micromolar levels. Exhibits favorable pharmacokinetic profile (C<sub>max</sub> = 140 nM, T<sub>max</sub> = 0.17 h at 30 mg/kg, i.p. single dose).

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	N-(4-((4-chloropiperidin-1-yl)sulfonyl)phenyl)-5-nitrofuran-2-carboxamide					