# Data Sheet

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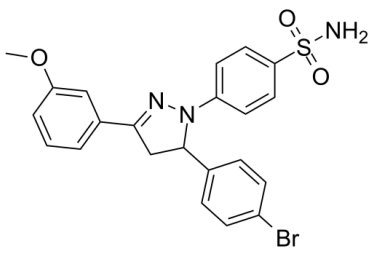
| **Product Name:** | CID44216842 |
| **Cat. No.:** | CS-0128857 |
| **CAS No.:** | 1222513-26-9 |
| **Molecular Formula:** | $C_{22}H_{20}BrN_3O_3S$ |
| **Molecular Weight:** | 486.38 |
| **Target:** | Ras |
| **Pathway:** | GPCR/G Protein |
| **Solubility:** | DMSO : 250 mg/mL (514.00 mM; Need ultrasonic) |



## BIOLOGICAL ACTIVITY:

CID44216842 (Cdc42-IN-1) is a potent **Cdc42**-selective guanine nucleotide binding lead inhibitor. The **$EC_{50}$**s for Cdc42 WT and Cdc42Q61L mutant are 1.0 and 1.2 μM in GTP binding assay, respectively. The **$EC_{50}$**s for Cdc42 WT and Cdc42Q61L mutant are 0.3 and 0.5 μM in GDP binding assay, respectively. Use as a molecular probe[1]. IC50 & Target: EC50: 1.0 μM (Cdc42 WT, in GTP binding assay) and 1.2 μM (Cdc42Q61L mutant, in GTP binding assay)[1]
EC50: 0.3 μM (Cdc42 WT, in GDP binding assay) and 0.5 μM (Cdc42Q61L mutant, in GDP binding assay)[1] **In Vitro:** CID44216842 inhibits GTP binding to both Cdc42 and its mutant in a dose-dependent manner. The inhibition is specific toward Cdc42 with no effects on other GTPases including Rac and Rho in the same family[1].

## References:

[1]. Lin Hong, et al. Characterization of a Cdc42 Protein Inhibitor and Its Use as a Molecular Probe. J Biol Chem. 2013 Mar 22;288(12):8531-43.

## CAIndexNames:

Benzenesulfonamide, 4-[5-(4-bromophenyl)-4,5-dihydro-3-(3-methoxyphenyl)-1H-pyrazol-1-yl]-

## SMILES:

O=S(C1=CC=C(N2N=C(C3=CC=CC(OC)=C3)CC2C4=CC=C(Br)C=C4)C=C1)(N)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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