TOCRIS
a bio-techne brand

Print Date: Dec 15th 2022

Certificate of Analysis

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Product Name: **BMS 191011** **Catalog No.: 2665** **Batch No.: 3**

CAS Number: 202821-81-6

IUPAC Name: 3-[(5-Chloro-2-hydroxyphenyl)methyl]-5-[4-(trifluoromethyl)phenyl]-1,3,4-oxadiazol-2(3*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{10}ClF_3N_2O_3$

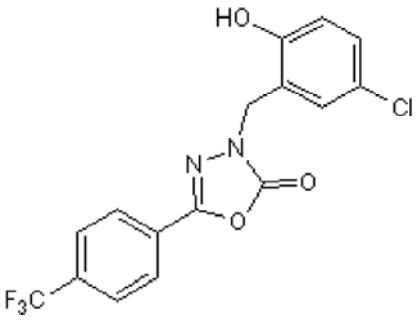
Batch Molecular Weight: 370.71

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.84	2.72	7.56
Found	51.62	2.56	7.46

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Description:

BMS 191011 is a potent BK_{Ca} channel opener (large-conductance Ca^{2+}-activated potassium channel, $K_{Ca}1.1$). Neuroprotectant in two distinct animal models of stroke (MCAO in the SHR rat and a normotensive model of focal stroke).

Physical and Chemical Properties:

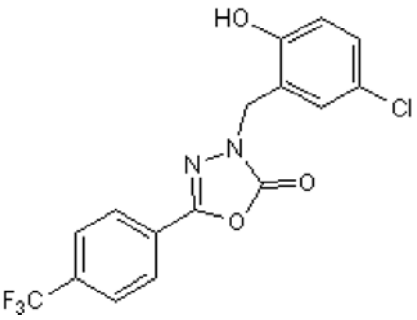
Batch Molecular Formula: $C_{16}H_{10}ClF_3N_2O_3$

Batch Molecular Weight: 370.71

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Romine *et al* (2007) 3-[(5-chloro-2-hydroxyphenyl)methyl]-5-[4-trifluoromethyl)phenyl]-1,3,4-oxadiazol-2(3*H*)-one, BMS-191011: opener of large-conductance Ca^{2+}-activated potassium (Maki-K) channels, identification, solubility, and SAR. J.Med.Chem. ***50*** 528. PMID: 17266205.

Hewawasam *et al* (2003) Synthesis of water-soluble prodrugs of BMS-191011: a Maxi-K channel opener targeted for post-stroke neuroprotection. Bioorg.Med.Chem.Letts. ***13*** 1695.