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Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

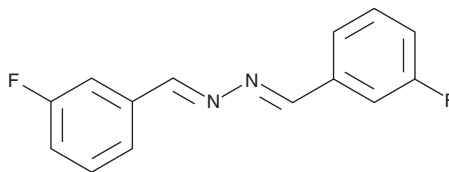
PRODUCT INFORMATION



DFB

Item No. 34395

CAS Registry No.: 15332-10-2
Formal Name: 2-[(3-fluorophenyl)methylene]hydrazone, 3-fluoro-benzaldehyde
Synonym: 3,3'-Difluorobenzaldazine
MF: C₁₄H₁₀F₂N₂
FW: 244.2
Purity: ≥95%
UV/Vis.: λ_{max}: 300, 312 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DFB is supplied as a solid. A stock solution may be made by dissolving the DFB in the solvent of choice, which should be purged with an inert gas. DFB is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of DFB in these solvents is approximately 1 and 30 mg/ml, respectively.

Description

DFB is a positive allosteric modulator of metabotropic glutamate receptor 5 (mGluR5).¹ It potentiates glutamate-, quisqualate-, or 3,5-dihydroxyphenylglycine-induced calcium transients in CHO cells expressing human mGluR5 (EC₅₀s = 0.021, 0.642, and 2.4 μM, respectively). It also enhances quisqualate-induced phosphatidylinositol hydrolysis in rat hippocampal slices (EC₅₀ = 0.42 μM). DFB improves spatial alternation retention in the Y-maze special alternation task in rats.²

References

1. O'Brien, J.A., Lemaire, W., Chen, T.-B., *et al.* A family of highly selective allosteric modulators of the metabotropic glutamate receptor subtype 5. *Mol. Pharmacol.* **64**(3), 731-740 (2003).
2. Balschun, D., Zuschratter, W., and Wetzel, W. Allosteric enhancement of metabotropic glutamate receptor 5 function promotes spatial memory. *Neuroscience* **142**(3), 691-702 (2006).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM