SZABO SCANDIC

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# 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


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Data Sheet

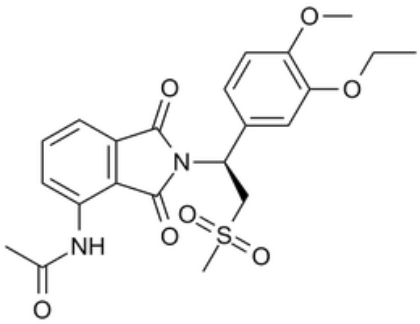
# Apremilast (CC-10004)

**Catalog #:** 27735-1

**Lot #:** 220802

**Size:** 5 mg

**Structure:**



**CAS Registry #:** 608141-41-9

**Purity:** ≥98%

**Chemical Formula:** $C_{22}H_{24}N_2O_7S$

**Molecular Weight:** 460.5

**Description:** Apremilast, also known as CC-10004, is a novel and potent small-molecule inhibitor of phosphodiesterase 4 (PDE4), a key enzyme involved in cyclic adenosine monophosphate (cAMP) degradation and cytokine production of inflammatory cells.

**Biological Activity:** Apremilast binds to the catalytic site of PDE4, with values of inhibition constant IC50 and affinity constant Kiof 0.074 μM and 68 nM respectively, consequently leading to the degradation of cAMP. Apremilast exhibits anti-inflammatory activities against inflammatory disease in animal models as well as human chronic inflammatory diseases (such as psoriasis and psoriatic arthritis) by blocking the synthesis of a range of pro-flammatory cytokines and chemokines, including tumor necrosis factor alpha, interleukin 23, CXCL9 and CXCL10.

**Synonym:** Apremilast; CC-10004; N-[2-[(1S)-1-(3-ethoxy-4-methoxyphenyl)-2-methylsulfonylethyl]-1,3-dioxoisoindol-4-yl]acetamide

**Solubility:** ≥23.05 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH. For obtaining a higher solubility, please warn the tube at 37°C and shake in the ultrasonic bath for a while.

**Storage/Stability:** Store at or below –20°C. Solid form is stable at least 12 months from date of receipt, when stored as directed. Do not store aqueous solutions for more than one day.

**Reference(s):** Schett, G., et al. Ther Adv Musculoskelet Dis. 2010; 2(5): 271-278.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