



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Morphine [6G1] Bulk Size Ab03757-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG2a format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** 6G1

**Alternative Name(s) of Target:** Morphinum; HSM; morphine 6-hemisuccinyl ester; opioids; ChEBI: 17303

**UniProt Accession Number of Target Protein:**

**Published Application(s):** ELISA

**Published Species Reactivity:** Species independent

**Immunogen:** The original antibody was generated by immunizing Balb/c mice with morphine derivative, 6-hemisuccinyl ester conjugated to BSA.

**Specificity:** This antibody binds morphine and also recognizes the 6-hemisuccinyl ester of morphine. Morphine is a strong opiate that is found naturally in opium, a dark brown resin in poppies (*Papaver somniferum*). It is considered the classic opioid analgesic, most commonly used in pain management, morphine provides major relief to patients afflicted with pain. It is a non-synthetic narcotic with a high potential for abuse.

**Application Notes:** This antibody binds morphine with a binding affinity of  $K_d = 123\text{nM}$ . The binding characterization of this antibody to the 6-hemisuccinyl ester of morphine was done using ELISA (PMID: 32219918).

**Antibody First Published in:** Trofimov et al. Epitope specificity of two anti-morphine monoclonal antibodies: In vitro and in silico studies. *J Mol Recognit.* 2020 Sep;33(9):e2846. [PMID:32219918](#)

**Note on publication:** This paper describes the characterization of two antibodies generated against morphine.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.