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## Product Data Sheet

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Product Name: Beclometasone (Beclomethasone)

Cat. No.: GC33856

**Chemical Properties**

Cas. No. 4419-39-0

SMILES C[C@@]12[C@](C(CO)=O)(O)[C@@H](C)C[C@@]1([H])[C@]3([H])CCC4=CC(C=C[C@]4(C)[C@@]3(Cl)[C@@H](O)C2)=O

Formula  $C_{22}H_{29}ClO_5$  M.Wt 408.92

Solubility DMSO :  $\geq 32$  mg/mL (78.25 mM) Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol**

The transgenic lines Tg(fli1:GFP) and Tg(mpx:GFP) are used in this study. 0.2 mM N-phenylthiourea (PTU) is applied to prevent pigment formation from 1 day post-fertilization (dpf). For Pu.1 knockdown, Pu.1 MO (1 mM for partial knockdown and 2 mM for complete knockdown is injected into the yolk at the one-cell stage. For pharmacological inhibition, the VEGFR tyrosine kinase inhibitors KRN633 (0.1-1  $\mu$ M) or Sunitinib (0.1-1  $\mu$ M), Beclomethasone (25  $\mu$ M) and  $\beta$ -amino-propionitrile ( $\beta$ APN, 500  $\mu$ M) are applied directly to the egg water and refreshed every 2 days. For pharmacological inhibition, Beclomethasone is applied to the embryos 4 h before implantation and KRN633, Sunitinib and  $\beta$ APN are applied 4-6 h post-implantation. For each cell line or condition, data are representative of  $\geq$  three independent experiments, with  $\geq 30$  embryos/group. Experiments are discarded when the survival rate of the control group is  $< 90\%$ [1].

**Cell experiment:**

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

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### References:

[1]. He S, et al.  
Neutrophil-  
mediated  
experimental  
metastasis is  
enhanced by  
VEGFR  
inhibition in a  
zebrafish  
xenograft  
model. J Pathol.  
2012  
Aug;227(4):431-  
45.

### Background

Beclomethasone is a glucocorticoid.<sup>1</sup> It reduces plasma corticosteroid levels in rats when administered at doses ranging from 1 to 10 mg/kg.

1.Yamamoto, S.Glucocorticoid action of beclomethasone and its propionate ester derivativesNihon Yakurigaku Zasshi73(1)25-36(1976)

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