



# 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

Quellenstraße 110, A-1100 Wien

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

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

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## PPR6      PODS® Rat Activin A

### Description

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The product contains the polyhedrin protein co-crystallized with Rat Activin A. Activin A is a member of the Transforming Growth Factor beta (TGF-β) family of proteins with a wide range of biological activities. Activins are produced in many tissue types including the skin, gonads, lungs, and pituitary gland. Activins interact with receptor type I and type II serine/threonine protein kinases, to activate SMAD signaling and regulate diverse cellular functions, such as cell proliferation, differentiation, wound healing, apoptosis, and metabolism. Activin A is a homodimer comprised of two activin beta A chains. Rat Activin A shares 100% amino acid sequence identity with human, mouse, porcine, bovine, and feline Activin A proteins.

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| <b>Length</b>           | 155 aa                                          |
| <b>Molecular Weight</b> | 35 kDa                                          |
| <b>Source</b>           | <i>Spodoptera frugiperda (Sf9) cell culture</i> |
| <b>Accession Number</b> | P08476                                          |

### Usage Recommendation

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PODS® co-crystals provide a depot of proteins which are steadily secreted. It has been estimated that the biological activity of 50 million PODS® co-crystals generates the same peak dose as 3.3 µg of standard recombinant protein. However, at 5 days following the start of seeding the PODS® co-crystals, there are more than 50% of these peak levels still present in the culture system. Ultimately, the amount of PODS® co-crystals that is optimal for a particular experiment should be determined empirically. Based on previous data, we suggest using 50 million PODS® co-crystals in place of 3.3 µg of standard growth factor as a starting point. To control for cross-reactivity with cells or as a negative control, we recommend using PODS® growth factors alongside [PODS® Empty crystals](http://www.cellgs.com/products/podsand8482-empty.html), as the latter do not contain or release cargo protein.

### Specifications

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alternative Names</b> | Inhibin beta-1, FRP, FSH-releasing protein, EDF, erythroid differentiation factor, FRP, follicle stimulating hormone releasing protein, Activin-A                               |
| <b>Endotoxin Level</b>   | <0.06 EU/ml as measured by gel clot LAL assay                                                                                                                                   |
| <b>Formulation</b>       | PODS® were lyophilized from a volatile solution                                                                                                                                 |
| <b>AA Sequence</b>       | MADVAGTSNR DFRGREQRLF NSEQYNNNS KNSRPSTSLY KKAGFMGNIC AKKQFFVSFK<br>DIGWNDWIIA PSGYHANYCE GECPSHIAGT SGSSLSFHST VINHYRMRGH SPFANLKSCC<br>VPTKLRPMSM LYYDDGQNII KKDIQNMIVE ECGCS |

### Preparation and Storage

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|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b>        | PODS® co-crystals may be reconstituted at 200 million co-crystals/ml in water. 20% glucose has a buoyant density closer to PODS® co-crystals and can be useful for aliquoting. PODS® co-crystals are highly stable when stored in aqueous solution (pH range 6 - 8). |
| <b>Stability and Storage</b> | Upon receipt, store at 4°C. PODS® co-crystals are stable for at least 1 year when dry and 6 months when resuspended.                                                                                                                                                 |