

# Tin Molibdate Nanoparticles Beta-SnMoO<sub>4</sub> small molecule (tool compound)

**Catalogue number:** 160390

**Sub-type:**

**Images:**

## Contributor

**Inventor:** Carl Feldmann

**Institute:** Karlsruhe Institute of Technology

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Tin Molibdate Nanoparticles Beta-SnMoO<sub>4</sub> small molecule (tool compound)

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** This technology, often referred to as "green", not only splits water into the elements, releasing the energy source of hydrogen, but also degrades organic pollutants, and could thus be used for water purification or wastewater treatment. Since metal oxides are easily prepared and chemically stable, they are generally considered to be the most useful photocatalysts.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:** SnMoO<sub>4</sub> nanoparticles are used as a photocatalyst, in particular for water purification, including the removal of dirt or stains from surfaces such as facade plaster ( Keyword "self-cleaning effect"), as well as for water splitting or hydrogen generation. See European Patent EP2680968A1 for details on its use.

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:**

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:**

## Related tools

**Related tools:**

## References

**References:** Seidl et al. 2016. ACS Nano. 10(3):3149-57. PMID: 26894966. ; Ungelenk et al. 2014. Chem Commun (Camb). 50(50):6600-3. PMID: 24824575. ; Ungelenk et al. 2012. Chem Commun (Camb). 48(63):7838-40. PMID: 22735092.

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