



TERTHERA

TERBIUM THERANOSTICS

OUR MISSION

At TerThera we aim to meet the growing demand in cancer healthcare using Terbium-161 by enabling out-patient Radioligand Therapy (RLT) to treat an increasing number of patients on daily basis.

TERBIUM-161 NCA

Carrier free lanthanide Terbium-161, produced by neutron activation of Gadolinium-160, is a promising radionuclide for RLT exhibiting comparable chemical characteristics to known radiolanthanides. Early research suggests that as much as **16-fold increase in Auger and conversion electrons** is emitted by Terbium-161 resulting in potential **3-fold higher cellular absorbed dose improving anti-tumor capabilities** for primary and (micro)metastasized cancers.

RADIOLIGAND THERAPY

Using PSMA and SST analogues, Tb-161 has shown an **excellent bioequivalence** and may provide for a **higher spatial resolution** SPECT compared to known radiolanthanides leading to the **detection of smaller lesions**. With the cellular absorbed dose increased, as well as for **undetectable (micro)metastasis**, the overall disease control could be improved. And when optimizing the general **radiation safety**, the treatment room capacity may be extended for RLT.

SIGN-UP for the next round of Terbium-161

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PRODUCT INFORMATION



Potential indications prostate, breast, neuroendocrine and solid cancers



E β 154KeV (average)
E γ 49keV (17%) 75keV (10%)



Product Tb-161 in aqueous 0.05M HCl
Decays to stable Dy-161



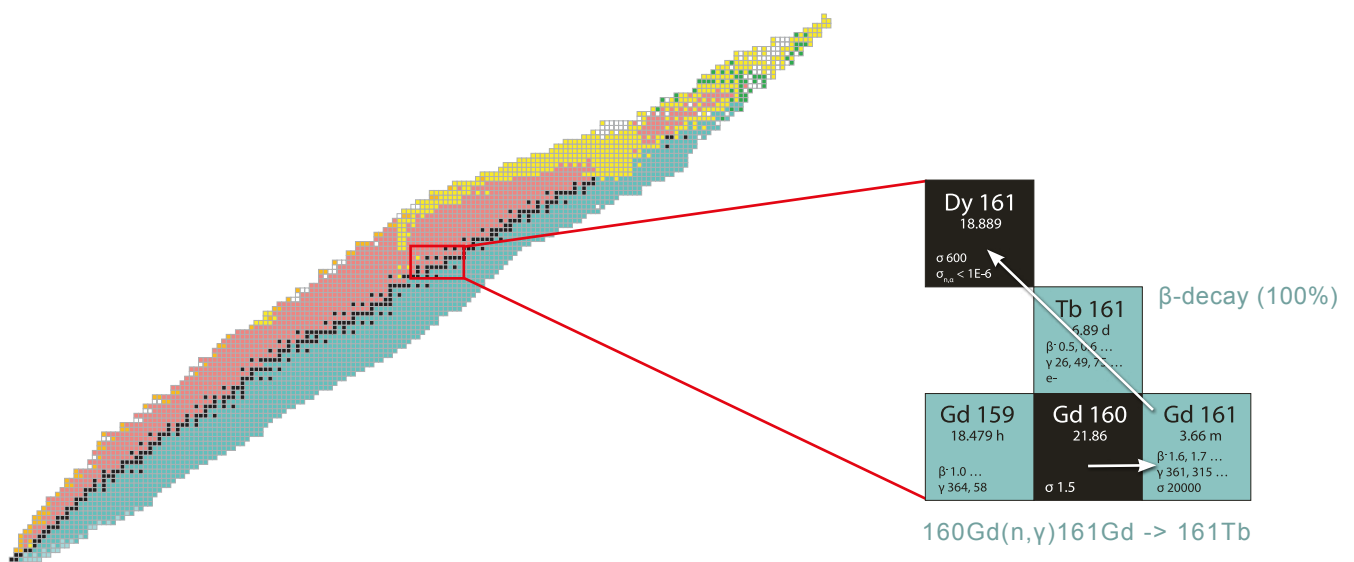
Factor 3 higher cellular absorbed dose
High LET Conversion & Auger electrons



Chemical purity >99% (ICP-MS)
Radiochemical purity >99% (TLC)



Global availability from Q1 2023
not for direct administration to humans



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