

**Experiment title:**

LS1203 Structure determination of ABP

**Experiment number:**

LS-1203.

**Beamline:****Date of experiment:**

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**Report:**

We succeeded in collecting a number of potential derivative data sets with optimized anomalous scattering of ABP. The crystals diffract very poorly at home and it is not possible to obtain data to screen for derivatives. The data collected at BM14 allowed us to unequivocally choose the correct spacegroup (p42212, with  $a=141.2$ ,  $c=120.2$ ). Four data sets were collected, one of which showed substitution. Additional derivatives are urgently needed to solve the crystal structure.

data	heavy atom	resolution	completeness	Rmerge	I/sigma	I/sigma (last shell)
Abp9	Hg	4.1	97.7	16.4	6.5	2
Abp4	Er	4.7	36.6	11.4	5.1	2
Abp6	Gd	4.4	92.5	21.7	6.3	2.1
Abp1	Au	3.85	77.3	10.5	6.5	2.1